

# Mineral Industry Surveys

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## MARKETABLE PHOSPHATE ROCK—CROP YEAR 2012

U.S. production of marketable phosphate rock was 28.8 million metric tons (Mt) in Crop Year 2012 (July 1, 2011-June 30, 2012) compared with 26.5 Mt in Crop Year 2011.

Data for this report were collected through semi-annual canvasses of U.S. phosphate rock producers. All companies that produced phosphate rock in the United States participated in the voluntary surveys, representing 100% of the production, use, and value data shown in the tables.

Marketable phosphate rock used was 28.2 Mt, compared with 28.1 Mt in Crop Year 2011. There were no reported sales of phosphate rock because all phosphate rock is used internally. The manufacturing of wet-process phosphoric acid for fertilizers and animal feed supplements was estimated to have accounted for more than 95% of phosphate rock consumption. The remainder was used to produce elemental

phosphorus, defluorinated phosphate rock, or direct application to soil.

Estimated domestic consumption increased to 31.3 Mt in Crop Year 2012, from 30.6 Mt in Crop Year 2011. Producers' stocks increased by 4% to 5.60 Mt in Crop Year 2012, from 5.37 Mt in Crop Year 2011.

The average value of marketable phosphate rock used in the United States was \$100.51 per metric ton, compared with \$92.31 per metric ton in Crop Year 2011. Imports of phosphate rock were estimated to be 3.16 Mt, using U.S. Census Bureau and PIERS data, because import tonnage and value data for some phosphate rock imports were not reported by Census. There were no reported exports of phosphate rock by mining companies in Crop Year 2012.

TABLE 1  
U.S. PHOSPHATE ROCK STATISTICS<sup>1</sup>

(Thousand metric tons)

Period	Marketable production	Used	Stocks, end of period <sup>2</sup>
2011:			
January–November	25,800	26,200	4,220
November	2,320	2,330	4,220
December	2,310	2,290	4,580 <sup>r</sup>
January–December	28,100	28,600 <sup>r</sup>	4,580 <sup>r</sup>
2012:			
January	2,080	2,170	4,310
February	2,020	2,040	4,560
March	2,360	2,380	4,650
April	2,480	2,210	4,790
May	2,830	2,110	5,320
June	2,610	2,150	5,570
July	2,650	2,380	5,640
August	3,000	2,480	5,980
September	2,610	2,190	6,230
October	2,580	2,250 <sup>r</sup>	6,470 <sup>r</sup>
November	2,460	2,380	6,670
January–November	27,700	24,700	6,670

<sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes inventory adjustments.

TABLE 2  
U.S. IMPORTS OF PHOSPHATE ROCK<sup>1</sup>

(Thousand metric tons and thousand dollars)

Period	Quantity	Value <sup>2</sup>
2011:		
January–November	2,610	379,000
November	316	52,900
December	175	29,100
January–December	2,780	325,000 <sup>r</sup>
Total year <sup>3</sup>	3,350	392,000 <sup>r</sup>
2012:		
January	275	43,800
February	214	29,900
March	312	43,600
April	115	18,000
May	301	40,000
June	166	22,300
July	184	28,700
August	105	14,800
September	279	41,700
October	160	21,400
November	272	37,800
January–November	2,380	342,000

<sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Cost, insurance, and freight values at U.S. ports.

<sup>3</sup>Includes an estimate for data not reported by the U.S. Census Bureau.

Source: U.S. Census Bureau; some data on phosphate rock imports from Morocco were not reported by Census.

TABLE 3  
COMPARATIVE U.S. PHOSPHATE ROCK STATISTICS

(Million metric tons, unless otherwise specified)

	2010	2011	2012 <sup>e,1</sup>
Marketable production	25.8	28.1	30.3
Used by producers	28.1	28.6 <sup>r</sup>	27.0
Yearend stocks	5.6	4.6 <sup>r</sup>	6.6
Imports for consumption <sup>c</sup>	2.4	3.4 <sup>r</sup>	3.0
Average value per ton	\$87.79	\$116.88 <sup>r</sup>	NA
Apparent consumption <sup>e,2,3</sup>	30.5	32.0 <sup>r</sup>	30.0

<sup>r</sup>Revised. <sup>e</sup>Estimated. NA Not available.

<sup>1</sup>Annualized data.

<sup>2</sup>Data may not add to totals shown because of independent rounding.

<sup>3</sup>Calculated as domestic sold or used plus imports.